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**AD 297 355**

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63-2-5

AID Report P-63-16

CATALOGED BY ASTIA  
AS AD NO  
28 January 1963  
297355

COMMUNICATIONS NETWORKS

**297 355**

**PART II**

Designations and Abbreviations

Work Assignment No. 33

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COMMUNICATIONS NETWORKS

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## FOREWORD

This is the second report published in response to Work Assignment No. 33 under the title Communications Networks, Part II. Designations and Abbreviations. The first report under this title was published as AID Report 62-93. One report, AID Report 62-92, has been published under the title Communications Networks, Part I. Review of Soviet Literature, and a second report under this title is being issued as AID Report P-63-15.

Bracketed numbers or letters following letter designations refer to types of the basic model. For example, the entry APC-[1,2] refers to two separate pieces of equipment: the APC-1 and APC-2 transceivers.

"A"	"A"	<p>Priyemno-peredayushchaya telefonno-telegrafnaya simpleksnaya radiostantsiya tipa A</p>	<p>Type "A" telephone-telegraph radio transceiver for simplex operation. Maximum transmitting power, 22-25 w in telegraph operation; 10-12 w in telephone operation. Frequency band, 3800-5800 kc. Range maximum, 250 km. It uses a superheterodyne receiver.</p>
A4-M2	A4-M2	Lampovyy vol'tmetr	<p>Vacuum-tube voltmeter. 0.1 - 1000 v</p>
A-7A	A-7A	Ul'trakorotkovolnovaya radiostantsiya	<p>Ultrashort-wave radio set (river fleet communication)</p>
A-7B	A-7B	Ul'trakorotkovolnovaya radiostantsiya	<p>Ultrashort-wave radio set (fleet communication)</p>
AB-1-0/230	AB-1-0/230	Agregat, benzoelektricheskiy, moshchnost'yu 1 kvv, odnofaznogo toka 230 v napryazheniyem	<p>Single-phase 50 cps gasoline power plant. Rated power, 1 kw. Rated voltage, 230 v. Weight, 73 kg</p>
ABK-1	AVK-1	Apparatura vykhodnoy komutatsii (provodnogo veshchaniya) - 1	<p>Rediffusion-system output switching equipment. The equipment is designed for distributing the output power from three TY-5 a-f amplifiers between 10 distribution feeders, two feeders for street public-address systems, two rural-type high-voltage feeders, and two derived channel equipment bays.</p>

ABO-III и ABO-II	AVO-III and AVO-II	Apparatura veshchaniya okonechnaya - po stroyen- nyam i sdvoyennym tele- fonnym kanalam	Apparatus for wire broad- casting using three or two telephone channels
ABYA-2	AVUD-2	Apparatura veshchaniya, ulichnaya distantsionnaya	Remote-control equipment for switching on speakers of street public-address systems. The equipment consists of two blocks: 1) a control block (ABYA-2K), which is placed in the re- diffusion station for sending the 5000-cps con- trol signal to the 2) actu- ating block (ABYA-2M), which is placed near a loudspeaker for switching the loudspeaker
AIM	AIM	Amplitudno-impul'snaya modulyatsiya	Pulse-amplitude modulation
APC-[1,2]	ARS-[1,2]	Avtomobil'naya radio- stantsiya - [1,2]	Mobile-service single-fre- quency FM transceiver for simplex and semiduplex com- munication with the APC-[1,2] sets. Antenna power, 8 w. Frequency band, 36-46 Mc. Range coverage, max 30 km
APTA-50	ARTA-50	Avtomatizirovanny rulonnyy telegrafnyy (start-stopnyy) apparat	The 1950-model page tele- typewriter. Special features of the apparatus are the typing reperforator for processing

transit telegrams and the use of a perforator attachment in the receiver as a reperforator. The apparatus has an automatic start-stop switch and an answer-back unit. Total unit intervals per character, 7.42. Speed, 47.2 baud and 53.2 baud. Words per hour (8.5 letters), 2696 and 3035. Time per signal element, 21.2 and 18.8 millise

Fixed-frequency transmitter for ship emergency communication frequencies: 512, 500, 480, 468, 454, 425, 410. Minimum antenna power, 0.06 kw. Range, about 200 km. Power supply, 28 v. Storage battery of 200 amp-hour capacity

Automatic sub-exchanges for 100 subscribers with 60 junction circuits. Former designation: ATA - 50. For automatic hunting, the АММ-10 hundred-joint step-by-step selector is used. Max. current consumption is 20 a at + 60 v with grounded middle point. Capacity of the exchange can be increased up to 300 subscribers.

АСТ-2-0.06

ASP-2-0.06

Аварийная связь, переносчик-2-0.06

ATA-100/60

ATA-100/60

Абонентская телеграфная автоматическая станция на 100 абонентов и 60 каналов

ATP-10/20	ATR - 10/20	Abonentskaya telegrafnaya stantsiya - na 10-20 abonentov	Subscriber's manually operated telegraph-exchange switchboard with capacity of 10-20 subscribers. Maximum current consumption is 3a at $\pm 60$ v with grounded middle point.
ATC-20M	ATS - 20M	Avtomaticheskaya telefonnaya stantsiya - na 20 nomerov, modernizirovannaya	Dial relay exchange for 20 numbers. Improved version of ATC-20.
ATC-50/100	ATS - 50/100	Avtomaticheskaya telefonnaya stantsiya dekol'dno-shagovoy sistemy na 50/100 nomerov	Step-by-step telephone exchange for 50 - 100 telephone numbers.
ATC-BPC-20	ATS-VRS - 20	Avtomaticheskaya telefonnaya stantsiya vnutrirayonnoy svyazi na 20 nomerov	Relay type rayon-wide dial exchange for 20 numbers.
ATC K 100/2000	ATS K 100/2000	Avtomaticheskaya telefonnaya stantsiya, koordinatsionnaya na 100/2000 nomerov	Crossbar-type telephone exchange for 100/2000 numbers. For use in system of the Local Agriculture Board

2 БИ-41	2БД - 41	Бодо-дуплекс телеграфный аппарат-типа 1941 года	The 1941 double duplex Baudot typing telegraph apparatus. Total unit in- tervals per character, 12. Speed, 40 bauds. Words per hour (8.5 letters), 1446 for sector. Time per signal ele- ment, 25 millisecc
БСМ	БСИ	Блок стирания импульсов	Pulse erasing unit

"B"

Priyemno-peredayushchaya  
telefonno-telegrafnaya  
simpleksnaya radiostan-  
tsiya tipa V

"V"

V-type telegraph-telephone  
transceiver for simplex  
operations. Antenna power,  
15 w in telegraph operations  
and 5 w in telephone oper-  
ations; frequency band,  
3,000 - 7,000 kc; range, up  
to 200 km; superheterodyne  
receiver. Manually driven  
generators or dry battery  
are used as power supply.

B-12

Vysokochastotnaya 12  
kanal'naya apparatura  
uplotneniya

V-12

The 12-channel telephone  
carrier system for non-  
ferrous open-wire lines.  
Channel frequency, band  
0.3-3.4 kc. It has four  
carrier-frequency variants  
in the frequency ranges  
36-84 kc and 92-143 kc.  
The same pilot frequencies  
(40, 80, 92, and 193 kc) are  
used for all four variants.  
Distance between repeaters  
80-120 km. Max. attenuation  
compensated by the system  
is 9 nepers. Voice-fre-  
quency calling system is  
similar to the calling system of  
the B-3 multiplexing system

B-12-2

Vysokochastotnaya 12  
kanal'naya uplotnyayu-  
shchaya sistema-2

V-12-2

The 12-channel carrier  
system for nonferrous open-  
wire lines. This is a new  
version of the B-12 system  
with modifications being  
made in the circuits of some

units, overall dimensions, and outside constructional features. Four channels can be separated from each repeater.

ВММ	VIM	Vremya-impul'snaya modulyatsiya	Pulse-time modulation
ВКЗ0	VKZO	Vsesoyuznyy kombinat zaochnogo obucheniya rabotnikov svyazi	All-Union Combine for Correspondence School Education of Communications Workers
"Волна"	"Volna"	Sudovoy radiopriyemnik	Ship superheterodyne radio receiver. 15 tubes for telegraph and telephone operations. Frequency band, 12 kc - 23 Mc with two discontinuities in the 60-100 kc and 600-1500 kc ranges
ВЦ	VP	Vyzyvnoy pribor	Ringling set
ВТ-34 Типа Сименс	VT-34 Siemens type	Uplotnyayuschaya apparatura tonal'nogo telegrafirovaniya	Voice-frequency telegraph multiplexing system for operation along nonferrous aerial lines in the 300-3400 cps frequency band. The system has 18 channels, an AM modulation system, and a maximum speed of 50 bauds. Carrier frequency: $f_1 = 420$ cps, $f_2 = 540$ cps, and $f_{ie} = 2460$ cps; Channel bandwidth 80 cps; distortion in channel at 50 bauds does not exceed 10%

BYC-12

VUS-12

Vspomogatel'naya  
usilitel'naya stantsiya  
na 12 kanalov

Auxiliary repeater for the  
B-12 (12-channel) multi-  
plexing system

1ГМ	1GI	Pervyy gruppovoy iskatel'	First group selector
2ГМ	2GI	Vtoroy gruppovoy iskatel'	Second group selector
ГММ	GI	Generator kanal'nykh impul'sov	Channel pulse oscillator of the time division multi- plexing system
ГРТС	GRTS	Gorodskaya radiotrans- lyatsionnaya set'	City rediffusion system
ГРТС	GRTS	Gorodskaya ruchnaya telefonnaya stantsiya	City manual telephone exchange
ГРМТС	GRMTS	Glavnoye upravleniye mezhdugorodnoy tele- grafno-telefonnoy svyazi	Main administration of long- distance telegraph-telephone communications of the Ministry of Communications, USSR.

ДТС	ДТС	Двусторонняя групповая телефонная связь	Two-way conference system
"Дзинтарс"	"Dzintars"	Радиоприёмник	"Amber" (Latvian name) superheterodyne high-fidelity radio receiver. 5 frequency bands.
ДП-49	ДП-49	Дуплексный прибор - типа 1949 года	Double-current opposition differential duplex apparatus for CT-35 teletypewriters, 1949 model. The apparatus provides for duplex and half-duplex operation using steel-wire voice-frequency telegraph channels.
ДТС	ДТС	Директсия радиотрансляционной сети	Administration of rediffusion and rayon telephone network
ДТО-2	ДТО-2	Двухтрубный остсиллограф-2	Double-beam oscillograph
ДФТ	ДФТ	Двукратная фазовая радиотелеграфия	Double phase-modulated radio telegraphy
ДФТ	ДФТ	Двухканальное частотно-телеграфирование	Double FM telegraphy
ДШИ-100	ДШИ-100	Декадно-шаговый искатель	Step-by-step selector

WATC-[1,2]

ZhATS-[1,2]

Zheleznodorozhnaya avto-  
maticheskaya telefonnaya  
stantsiya

Railroad dial exchange

ЗГП

ЗГІ

Zadayuschiy generator  
impulsov

Pulse master oscillator  
(Radio-relay time separation  
multiplexing terminal  
equipment)

ИВ-1	IV-1	Pribor izbiratel'nogo vyzova	Selective ringing attachment used in the IC-25 radio set
ИМ-57	ИЛ-57	Modernizirovannyy pribor izmereniya iskazheniy telegrafnykh posylok i ispytaniya rele	Modernized telegraph distortion meter and relay tester
ИММ	ИМ	Impulsno-kodovaya modulyatsiya	Pulse-code modulation
ИКТНОУ	ИКТНОУ	Iskhodyashchiy komplektonal'nogo nabora, odnochastotnyy uproshchenny	Simplified-voice single-frequency ringer of the outgoing terminal bay
ИМ-12	ИМ-12	Izmeritel' modulyatsii	Modulation meter
ИММ-6	ИМ-6	Izmeritel' nelineynykh iskazheniy	Nonlinear distortion meter
ИП-[150, 300]	ИП-[150, 300]	Izmeritel'nyye pul'ty dlya izmereniya kharakteristik gruppovogo trakta	Instrument desk for measuring FM and AM characteristics of the channel group. (Radio-relay lines).
ИП-150-II	ИП-150-II	Izmeritel'nyy pul't dlya izmereniy v traktakh dal'ney svyazi	Measuring instrument desk for long-distance communication lines

ИПШ-4	ИПЛ-4	Iskatel' povrezhdeniy (podzemnykh) liniy	Underground cable fault detector
ИР-[7, 10, 15, 20]	ИР-[7, 10, 15, 20]	Iskrovyeye razryadniki (dlya vozdushnykh provod- nykh liniy svyazi)	Spark dischargers for open wire lines
ИРП-[1ж, 2ж, 3ж]	ИРП-[1Zh 2 Zh, 3 Zh]	Izmeritel' radiopomekh	Radio-interference meter
ИРЧ-1	ИРЧ-1	Izmeritel' rasstanovki chastot-1	Portable frequency-deviation meter for single- or two- channel FM telegraphy with 500 and 1000 cps deviation. Input resistance of the de- vice in a 2000-7000 cps fre- quency range is 600 ohm
ИСК-М-49	ИСК-М-49	Iskhodyashchaya stoyka krossa kommutatora - М - 49	Outgoing distribution bay of the М-49 long-distance switch- board
ИТС-2	ИТС-2	Izmeritel' iskazheniy telegrafnykh signalov	Telegraph-signal distortion meter
ИТУ-[1, 2, 3, 4]	ИТУ-[1, 2, 3, 4]	Individual'nyye tonal'- nyye usiliteli	Individual voice-frequency three-stage transistor ampli- fiers. Maximum gain at 800 cps 2.85 nep; operating frequency, 300-3400 cps. ИТУ-1 is used as a repeater on four- wire cable lines having cotton

or styroflex insulation. WTY-2 is used as a repeater on open-steel or copper-wire lines. WTY-3 is used as a repeater on copper-clad steel-wire lines or HPBIM cables. WTY-4 is used as a terminal amplifier on four-wire cable lines with cotton or styroflex insulation. WTY-5 and WTY-6 are used in auxiliary circuits utilized by service personnel.

WVY-KC

IUU-KS

Izbiratel'nyy ukazatel'  
urovney

Selective power level indicator component element of the KS measuring set

K-[120,180,960]	K-[120,180,960]	Apparatura uplotneniya simmetricheskikh kabel'nykh liniy na [120,180,960] kanalov	Telephone multiplexing equipment for balanced cables for 120,180, and 960 channels
K-300	K-300	Apparatura uplotneniya malogabaritnogo koaksial'nogo kabelya na 300 kanalov	Telephone multiplexing equipment for miniature coaxial cable for 300 channels
KB-12	KV-12	Kabel'naya vysokochastotnaya 12 kanal'naya uplotnyayushchaya apparatura	The 12-channel telephone carrier system for nonloaded balanced cables with conductors: 1.2 and 1.4 mm in MKB cable, 1.2 mm in MKCB cable, and 0.9 mm in KMB4. The KB-12 system is designed for the cable version of the B-12-2 system. Two variants of carrier frequency are used. Maximum attenuation compensated by the system at 193 Kc is 7.6 nepers. Retransmission distance, 800 km.
KBV	KVU	Knopochnoye vyzivnoye ustroystvo	Pushbutton ringing device
KBV-15	KVU-15	Komandno-veshchatel'nyy radiouzel-15	Remote-control public address system for giving commands for mooring in river fleet communications

КУ-1	КИ-1	Kabeleiskatel' - 1	Cable detector
"Киев-2"	Киев-2	Elektrostantsiya dlya pitaniya apparatury svyazi i veshchaniya	Power unit for supplying communication and rediffusion equipment. Motorcycle single-cylinder engine 115 v, 700 w, a-c generator
КУМ	КИМ	Kodovo-impulsnaya modulyatsiya	Pulse-code modulation
КУП	КИР	Kontrol'no-ispytatel'-nyy punkt	Checking and testing (point) station. (RR communications)
КУПЗ	КИРЗ	Komplekt izmereniya perekhnodnogo zatukhaniya	Cross-talk attenuation measuring set
"Корабль"	"Korabl' "	Spetsial'naya ul'trakorotkovolnovaya radiostantsiya dlya morskogo flota	Merchant marine special ultrashort-wave transceiver
КУР	КРР	Kontrol'nyye radiotranslyatsionnyye punkty	Rediffusion-system monitoring points
КУР	КРУ	Kontrol'no-registruyushchikh ustoystv, stoyka	Electronic monitoring-recording bay (Automation of telegraph communications)

ЛБВ	ЛБВ	Lampa begushchey volny	Traveling-wave tube
ЛБК-40	ЛБК-40	Lineyno-batareynyy kommutator na 40 pro-vodov	Line-battery switchboard with 40-wire capacity for telegraph office, commutator function:
			1. Connection and switching of line wires
			2. Connection and switching of telegraph sets
			3. Connection and switching of wires carrying line voltage
			4. Testing of line conductors
			5. Testing of telegraph apparatus
ЛЛРС	ЛЛРС	Lineynyy ispytatel' rayonnoy svyazi	Rayon [administrative region] communications line tester
ЛК	ЛК	Lineynyy kross	Line distributing frame (equipment for radio telegraph office)
ЛТ-2	ЛТ-2	Lentoprot'yazhnyy telegrafnyy mekhanizm	Telegraph-undulator tape-feed mechanism with a speed of up to 650 words per minute.
ЛТУ	ЛТУ	Lineyno-tekhnicheskyy uzel	Line-technical center (Rayon communications)

M-[49,60]	M-[49,60]	Mezhdugorodnyy kommutor [49,60]	Long-distance switchboard
M-[49,60]	M-[49,60]	Mezhdugorodnyy telefonnyy kommutator Lipa [1949, 1960 goda]	The 1949 and 1960 long-distance telephone switchboards
M3V	MZU	Magazin zatukhaniy, universal'nyy	Decade attenuation box. The box consists of 5 elements. The first two have constant attenuation of 3 nepers. The others have variable attenuation: the third, from 1 to 4 nepers in steps of 1 neper; the fourth, from 0.1 to 1 nepers in steps of 0.1 neper; the fifth, from 0.01 to 0.1 nepers in steps of 0.01 neper
MRHP	MKKR	Mezhdunarodnyy konsultativnyy komitet po radio	International consultative committee on radio
MRRTT	MKKTT	Mezhdunarodnyy konsultativnyy komitet po telegrafii i telefonii	International consultative committee on telegraphy and telephony
MRC	MKS	Mnogokratnyy koordinatnyy soyedinitel'	Crossbar switch
MPΦ	MRP	Ministerstvo Rechnogo Flota	Ministry of the River Fleet

MT-4

MT-4

Mnogokratnaya telegraf-  
naya sistema-chetyrekh  
kanal'naya

The 4-channel carrier tele-  
graph system for use with  
trunk cable lines between  
telegraph offices and radio  
centers. Carrier frequencies  
900, 1200, 1620, and 1980 cps;  
TM-PB or TM-PPU keyers and  
the TVB-PP or TVB-PB ampli-  
fier-detectors for each chan-  
nel are used. Pass-band for  
each channel, 230 cps; input  
and output resistance, 600  
ohm; amplification of receiver  
amplifier, 2.7 neper

MY-1

MU-1

Mikrofonnoye ustroy-  
stvo-1

Microphone set (RR communi-  
cations)

"Недра-I"	"Nedra I"	Radioperedatchik (Priyemoperedatchik)	Fixed-frequency AM radio transceiver 1640, 1730, 1850, 1935 kc. Range, 5 km with a 1-m rod antenna; 30 km with a 12-m rod antenna
"Нептун"	"Neptun"	Izmeritel'nyy kabel'nyy pribor	Cable tester
НИИТС	NIITS	Nauchno-issledovatel'skiy institut (gorodskoy i sel'skoy) telefonnoy svyazi	Scientific-Research Institute of Urban and Rural Telephone Communications of the Ministry of Communications, USSR
НТ	NT	Nadtonal'noye telegrafirovaniye	Supersonic telegraphy
НУС-3	NUS-3	Neobsluzhivayemaya usllitel'naya stantsiya-3	Unattended repeater station of an open-wire nonferrous line multiplexing system

OB-3	OV-3	Okonechnaya stantsiya uplotnyayushchey sistemy B-3	Terminal equipment of the V-3 telephone multiplexing system
OR2-3C	OG2-3S	Drukhluchevoy ostsillogra- f	Double-beam cathode-ray oscillograph. Manufactured in German Democratic Republic
"Oka"	"Oka" (the Oka river)	Radioperechatnik maloy moshchnosti dlya vnutri- basseyonoy svyazi na srednikh i korotkikh volnakh	Telephone-telegraph trans- mitter-receiver for remote- control simplex operation in river communications. It uses the YC-9-type super- heterodyne receiver. Trans- mitter power, 30-80 w (tele- graph) and 10-40 w (telephone); transmitter frequency 2150 - 12,000 kc and 350 - 500 kc
OLT-2	OLT-2	Ondulyator, lentochnyy telegrafnyy-2	Tape-type undulator
OPC-5	ORS-5	Odnoy bokovoy polosy radiostantsiya moshch- nosti 5 vatt dlya svyazey v zhivotnovod- cheskikh khozyaystvakh	The 5-w single-sideband trans- ceiver for cattle-breeding farms
OPC-30	ORS-30	Radiostantsiya moshch- nosti 30 vatt s odnoy bokovoy polosoy	The 30-w single-sideband trans- ceiver

ОСЛ	OSL	Obshchesignal'naya lampa	Master pilot lamp
ОЭ-7	OE-7	Ostsillograf, elektron-nyy-7	Cathode-ray oscillograph

ПАФК-0.08	PARKS-0.08	Peredvizhnaya avariynaya korotkovolnovaya radio stantsiya - 0.08	Radio telephone-telegraph receiver-transmitter set. Transmitter power, 0.03-0.08 kw in telegraph operation and 10-40 w in telephone operation. Transmitter frequency bands, 2500-12,000 kc and 250-600 kc combined with the PR-4 receiver set. Power supplied by the RC-1000 27 v d-c generator driven by the A-3/2 gasoline engine and two motor generator sets for 220 v d-c and 1500 v d-c
ПВ-3	PV-3	Provezhutochnyy usilitel' sistemy uplotneniya v-3	Repeater of the B-3 multiplexing system for nonferrous open-wire lines
ПВ-12-2	PV-12-2	Provezhutochnaya stantsiya sistemy uplotneniya v-12-2	Repeater of the B-12-2 telephone multiplexing system
ПЗ	PZ	Ploskoye zerkalo	Flat mirror (reflector) (radio-relay lines)
ПЗС-1.5	PZS-1.5	Peredvizhnaya zaryadnaya stantsiya-1.5	Mobile battery-charging station
ПР	PIR	Pribor ispytaniya rele	Relay tester
ПВ-1	PIU-1	Proboyno-ispytatel'naya ustanovka-1 (dlya kabeley)	Cable breakdown tester

ПМЧ-2	ПМЧ-2	Прецизионный измеритель частоты-2	Precision measuring assembly (Radio-telegraph communications)
ПК-1А	ПК-1А	Передатчик, коротковолно- вый, мoshchnost'yu 1 kv, автоматизированный	Automatic remote-controlled radio transmitter for FM and AM telegraphy and AM tele- phony. Frequency band, 2-20 mc; output power, 1-1.2 kw in tele- graph operation (oblast-wide communications)
ПКП-2	ПКП-2	Кабельный прибор-2	Portable cable tester
ПКЧ	ПКЧ	Приемник контрольный частоты	Pilot-frequency receiver (used in multichannel equipment for multiplexing open-wire lines)
ПНТ-59	ПНТ-59	Прибор настольный теле- визионный приемников типа 1959 года	The 1959 instrument for ad- justing TV receiver sets.
"Попт"	"порт"	"Специальная ультра- коротко-волновая радио- станция для морского флота	Special marine ultrashort- wave receiver-transmitter set.
ПР-54	ПР-54	Печатывающий репе- ратор-54	The 1954 typing reperforator of the АРТА-50 teletypewriter
ПРИЗМА	ПРИЗМА	Фотографный аппарат	Facsimile set

ПРС-61	ПРС-61	Пул'т резервнoй cвязи-61	Emergency communications panel for railroad attendants on duty.
ПС	ПС	Прямoе coединениe	Direct connection
ПС-[1 M, 2 M]	ПС-[1 M, 2 M]	Стойкi пoстaнтcиoннoй cвязи	RR station-to-station communication bays
ПСП-M	ПСП-M	Прoмeжyтoчнaя cтoйкa пepеклyчeний-M	Intermediate patching bay
ПТ	ПТ	Пoдтoнaл'нoйe тeлeгpaфi-рoвaниe	Subaudio telegraphy
ПТНОВ	ПТНОВ	Пpийeмник тoнaл'нoгo нaбopa, oднoчacтoтныy upoшчeнныy	Simplified voice-frequency signalization single-frequency receiver used at terminal offices
ПТС-[3, 52, 59]	ПТС-[3, 52, 59]	Пepедвижныe тeлeвизиoн-ныe cтaнтcии	Mobile TV transmitters
ПФ	ПФ	Пoлocовoй фил'тp	Bandpass filter
ПФА-1	ПФА-1	Пул'т, фoничecкий aппapaтны-1	Audio-frequency equipment control desk for musical and speech broadcasting studios

24P1	24R1	Radiostantsiya dlya spischikov vagonov	Portable push-to-talk f-m transceiver for Rf car checkers. Frequency range, 33-46 Mc; operational range, 2 km. The 24P1 transceiver replaces the MP-4H transceiver.
P-104AM	R-104AM	Radiostantsiya - 104AM	Automobile transceiver (military communications)
P-[105, 109, 115, 118]	R-[105, 109, 115, 118]	Radiostantsii	Transceivers (military communications)
P-350	R-350	Razryadnik - 350	Arrester
P-[400, 401, 401M, 403]	R[400, 401, 401M, 403]	Radioareleynnye stantsii	Radio relay stations (military communications)
PT	RG	Rombicheskaya gorizonttal'naya antenna	Rhombic horizontal antenna
PTM	RGD	Rombicheskaya gorizonttal'naya dvoynaya antenna	Rhombic horizontal double antenna
"Рекорд"	"Рекорд"	Fototelegrafnyy apparat	Drum-type direct-recording fascimile with an ink electro-mechanical recorder. Drum diameter, 70 mm; drum length, 150 mm; speed, 120 rpm; scanning pitch, 0.2 mm; index of cooperation, 350; carrier frequency, 1900 cps

PMI	RIL	Reguliruyushchaya iskusstvennaya liniya	Adjusting artificial line
PM-[24, 24/A]	RM-[24, 24/A]	Radio-releynaya mezhdygorodnaya sistema na 24 kanala.	Pulse-phase-modulation radio relay system for 24 channels (22 commercial channels, one service channel, and one channel for end synchronization). Transmission range without repeaters, up to 100 km; four repeaters can be used. Frequency range, 1900-2100 Mc. Produced by the "Budavox" factory in Hungary
PMI	RPP	Rayonnyy peregovornyy punkt	Rayon long-distance telephone public call office
PC-25	RS-25	Radiostantsiya-25	Telephone-telegraph transmitter for simplex or duplex operations at 500-, 2182-, 4120-, and 6200-kc fixed frequencies. Antenna output power, 15-35 w; receiver sensitivity for telephone operation, 5 $\mu$ v; for telegraph operation, 10 $\mu$ v. The NB-1 selective calling attachment is used for connecting the transceiver to the telephone network.
PT-20	RT-20	Radiotelefonnaya stantsiya na 20 vatt	The 20-w fixed-frequency telephone-telegraph AM transceiver for ship-to-ship or ship-to-shore communications. Receiver sensitivity, 5-10 $\mu$ v;

range of operation, 40 km; frequency range, 1500-3300 kc (500 kc and 2182 kc emergency signal). (This transceiver is also known as the "YUOB")

PTA-50

RTA-50

Rulonnyy telegrafnyy apparat - tipa 1950 goda

The 1950 PTA page teletype writer. Same as the APTA-50 apparatus, but without perforator attachment

PTA

RTD

Reservnyy telefon dispetchera

Emergency dispatcher telephone set (RR communications)

PTM

RTM

Radiotelefon, mobil'nyy

Mobile FM transceiver which is built in various versions for either one- or two-frequency duplex or simplex operation with selective, voice-frequency, or voice-calling system, in frequency ranges of 156-174, 100-130, 36-46 Mc. Transmitter output voltage, d-c: 6, 12, 26, and 110 v; a-c: 90-240 v

PTH

RTN

Radiotelefon, nosimyy (perenosnyy)

Portable FM transceiver. Transmitter output, 0.5 w; 19 direct-heated miniature tubes, 5 transistors, and 8 crystal diodes are used. Calling system is voice-frequency signal or voice. Power supplied from storage battery or a-c 127/220 v current

PTI	RTP	Radiotelefon, portativnyy	Portable push-to-talk FM transceiver for communication with the PTM, PTC, and PTH units (river fleet communications). Frequency ranges are the same as in the PTM. Superminiature tubes and transistors are used. Transmitter output, 150 mw; transceiver weight, 1 kg; power supply, silver-zinc storage battery (6 v); calling system, by voice
PTC	RTS	Radiotelefon, stantsionny	FM receiver-transmitter set with remote control. It is the PTM transceiver with additional transmitter power-amplifier which insures a 50-w power output. Frequency range, the same as in the PTM; calling system, selective up to 90 subscribers
P0B	REB	Remontono-ekspluatatsionnaya baza	Maintenance base

CAPH	SARN	Stoyka avtomaticheskikh regulyatorov napryazheniya	Automatic voltage-regulator bay (long-distance communications equipment)
CBP-ADU	SVR-ADU	Sistema veshchaniya, rayonnaya - avtomaticheskoye distanttsionnoye upravleniye	Remote-control rediffusion system for rayon-wide wire-broadcasting. For transmission of programs, an additional channel (28.7-34.7 kc frequency range) is introduced by multiplexing rayon telephone lines. The system includes the equipment for central, junction, transit, and terminal station and terminal unit remote-control.
CMH-[1,2]	SDP-[1,2]	Stoyka distanttsionnogo pitaniya	Remote power-supply bay
CMTP	SITR	Stol ispytaniya telegrafnykh rele	Telegraph relay-testing desk
CMU'	SKP	Stol kontrolya peredachi	Transmission control desk (automation of telegraph communications)
CMQ	SLF	Stoyka lineynykh filtrov	Line filter bay (RR communications)
CMVP	SMUR	Stroitel'no-montazhnoye upravleniye radiofiksatsii	Construction and installation management for rediffusion system

СП	Стойка питания	Power-supply bay (RR communications)
СПП	Стол первичной перфорации	Primary perforator desk (automation of telegraph communications)
СПР	Стойка распределения питания	Power-supply distribution bay (RR communications)
СТ-35	Советский телеграф 1935 года	The 1935-model tape teletypewriter, which uses 5-unit code and has the following data: total unit intervals per character, 7.06 ; speed, 44.9 bauds; words per hour (8.5 letters) 2696; time per signal element, 22.3 msec
СТА-56	Советский телеграф, автоматизированный, 1956 года	The 1956 automatic-tape teletypewriter. Essentially, it is an CT-35 apparatus with a reperforator and a transmitter as additional attachments.
СТВ	Стойка тонального вызова	Voice-frequency ringing bay (radio relay lines)
СТН-М	Стойка тонального набора, модернизированная	Voice-frequency dialing bay (modernized) (RR communications)

СТРК	STRK	Stantsiya tekhnicheskogo radiekontrolya	Technical monitoring station
СУТУ	SUTU	Stoyka universal'nykh telefonnykh uslitateley	Universal telephone amplifier bay which is designed for use as a terminal or intermediate amplifier (repeater) on two- wire steel or nonferrous lines as well as on two- or four-wire cable lines. Maximum gain at 800 cps: on two-wire steel lines, 1.6 nep; on nonferrous two-wire lines, 2.3 nep; on four-wire lines, 2.8-3.1 nep
СЧК	SChK	Stoyka chetyrekhpro- vodnoy kommutatsii	Four-way switching bay (radio relay lines)

T-[15]	T[15]	Teletayp - [15]	Page teletypewriter. Data: total unit intervals per character, 7.42; speed 47 bauds; words per hour (8.5 letters), 2682; time per signal element, 21.2 msec
T 50	T 50	Transmitter tipa 1950 goda	The 1950 motor-driven start-stop transmitter of the APTA teletypewriter
TAH-5MP	TAN-5MP	Telefonnyy apparat, nastol'nyy, 5 MP	Improved table-type dial telephone set (modification of TAH-5 telephone set)
TAC-1	TAS-1	Stroboskop dlya proverkiperedatchikov startstopnykh telegrafnykh apparatov	Neon stroboscope for checking start-stop telegraph transmitters
TM-IPU	TM-PRTs	Tonal'nyy manipulyator priyemnogo radiotsentra	Voice-frequency keyer for a radio-telegraph receiving center; for keying and sending d-c signal received over wire lines to local telegraph receiving offices. The keying set consists of a keying circuit, tone-generator a-f amplifier, and level indicator. Fixed carrier frequencies are 900, 1260, 1620, and 1980 cps. Input resistance is 20 kohm. Output resistance is 300 and 600 ohm.

TM-PPU2

TM-PRTs2

Tonal'nyy manipulyator  
priyemnogo radiotsentra-2

Voice-frequency keyer for a radio-telegraph receiver center, for keying and sending d-c signals received over wire lines to local telegraph receiving offices. The TM-PPU2 is a modified version of the TM-PPU keyer with the following changes:

- a. An additional cathode-follower output stage is introduced, which reduces the output resistance to 25-30 ohm; and
- b. An additional 4000-cps carrier frequency is added. The TM-PPU2 has been in production since 1956.

TM-PB

TM-RB

Tonal'nyy manipulyator  
dlya radiobyuro

Voice-frequency keyer for a radio-telegraph sending office for keying and sending d-c telegraph signals over wire lines to sending radio centers. The keyer consists of an incoming relay, tone-generator, keying circuit, a-f amplifier, and level indicator. Fixed carrier frequencies: 900, 1260, 1620, and 1980 cps. Input resistance is 0.5 Mohm (+ 10%); output resistance, 500 ohm (+ 20%)

TM-PB2	TM-RB 2	Tonal'nyy manipulyator dlya radiobyuro	Voice-frequency keyer for a radio-telegraph sending office for keying and sending d-c telegraph signals over wire lines to sending radio centers. The TM-PB2 is a modified ver- sion of TM-PB keyer with the following changes:
			<ul style="list-style-type: none"> <li>a. An additional cathode- follower output stage is introduced, which reduces the output resistance to 25-30 ohm; and</li> <li>b. An additional 4000-cps carrier frequency is added.</li> </ul>
			The TM-PB2 has been in produc- tion since 1956
TPJ	TRL	Telegrafnoye rele, lineynoye	Telegraph polarized line-relay
TPM	TRM	Telegrafnoye rele, mestnoye	Local telegraph polarized relay
TPCA-100	TRSA-100	Televizionnaya retrans- lyatsionnaya stantsiya, avtomaticheskaya, moshch- nost'yu 100 v	Automatic TV translator. Sensi- tivity of the receiver, 50 $\mu$ v; video signal transmitter power, 100 w; range, 25 km; power con- sumption, 2300 w

TPT-1	TRT-1	Trekhkratnyy radiotelegrafnyy apparat	Triple radio-telegraph teletypewriter set. The set consists of a receiving and sending Baudot-type distributor and three sections of page teletypewriter apparatus. Each section consists of one page teletypewriter, one motor-driven transmitter for transmission and control, and one page teletypewriter for reception. Data: total unit intervals per character, 48; speed 149 bauds; words per hour (8.5 letters), 2487 for section; time per signal element, 7 msec
TT	TT	Tonal'noye telegrafirovaniye	Voice-frequency telegraphy
TT-2	TT-2	Telegrafnyy transmitter-2	Morse-code automatic transmitter. Operation speed, 14-300 wpm. Signal-circuit voltage, + 40 v; signal-circuit current, 10 ma; motor speed, 0-2000 rpm
TTqM-12/16	TTChM-12/16	Tonal'nogo telegrafirovaniya chastotnoy modul'yatsii uplotnyayushchaya apparatura na 12/16 kanalov	Voice-frequency FM telegraph multiplexing system for telephone channels. With the use of this system, 16 channels may be achieved employing nonferrous wire line and 12 channels employing two-wire cable. Maximum speed, 50-70 bauds;

TV-5-4	TU-5-4	Translyatsionnyy uslilitel'-5-4	carrier frequencies, 450, 1710, 2070, 3150 cps; band width of each channel, 130 cps; transmission level, 2.1 neper
TVB-100	TUB-100	Translyatsionnoye uslilitel'noye ustroy- stvo, batereynoyye-100	Three-stage a-f power amplifier with 5-kw power output for re-diffusion stations. The amplifier is designed for operation with remote-control systems
2TV	2TU	Dvukratnaya telegrafnaya ustanovka	Rediffusion-system battery-operated amplifier  Double synchronous teletype-writer set for automatic operation. Data: total unit intervals per character, 22; speed 66 bauds; word per hour (8.5 letters) 2541 for section; time per signal element, 15.1 millise
TVB-IP	TUV-PR	Tonal'nyy uslilitel'- vypryamitel' perdayu- shehego radiotsentra	Voice-frequency amplifier-de-tector for a sending radio-telegraph center. The amplifier-detector converts keyed telegraph signals coming from telegraph offices into d-c telegraph signals. The amplifier-detector consists of an input amplifier, level indicator, delay filter, limiter, phase-inverter, and d-c amplifier. Input resistance for an

800-4500-cps frequency range  
is 600 ohm ( $\pm 20\%$ ).

TYB-IP2

TUV-PR2

Tonal'nyy usilitel' -  
vypryamitel' peredayu-  
stshegopradiotsentra

Voice-frequency amplifier-  
detector for a sending radio  
telegraph center. The TYB-IP2, a  
modified version of the TYB-IP,  
has been in production since  
1956. Max sensitivity,  
-3 neper; operating input  
level, - 3 ( $\pm 1$ ) neper; output  
voltage, + 40 v; and output cur-  
rent at 1200 ohm load resistance,  
+ 30 ma.

TYB-PB

TUV-RB

Tonal'nyy usilitel' -  
vypryamitel' radiobyuro

Voice-frequency amplifier-  
detector for a radio tele-  
graph office. The amplifier-  
detector converts keyed  
telegraph signals coming from  
a radio-telegraph receiving  
center into d-c telegraph  
signals. The amplifier-  
detector consists of an in-  
put amplifier, rectifier with  
level indicator, delay filter,  
limiter, phase inverter, d-c  
amplifier. Input resistance  
for an 800-4500-cps frequency  
range is 600 ohm ( $\pm 20\%$ )

TYB-PB2

TUV-RB2

Tonal'nyy usilitel' -  
vypryamitel' radio-  
byuro

Voice-frequency amplifier-  
detector for radio-tele-  
graph office. The TYB-PB2,  
a modified version of the  
TYB-PB, has been in produc-  
tion since 1956. Maximum

sensitivity, 3-neper; operating input level -3(+1) neper; output voltage +40 v; and output current at 1200 ohm load resistance, + 30 ma.

TYB-PB-B

TUV-RB-V

Tonal'nyy usilitel' -  
vypryamitel' radiobyuro-  
s vypryamitelem

Voice-frequency amplifier-detector for radio-telegraph offices. It is a modified TYB-PB amplifier-detector with a rectifier unit for supplying power from an a-c network

TW-39

TW-39

Avtomaticheskaya abonent-  
skaya telegrafnaya stan-  
tsiya

Automatic subscriber's telegraph exchange. (Presumably of non-Soviet manufacture)

УАТС 50/100	УАТС 50/100	Unifitsirovannaya avtomaticheskaya telefonnaya stantsiya na 50/100 nomerov	Unified dial exchange, 50-100 number capacity
УЗТЛ-57	УЗТП-57	Установка записи телевизионных программ-57	TV-program tape-recording assembly
"УЛОВ"	"УЛОВ"	Радיותרлефонная станция See PT-20	"Catch" transceiver for 20 w. It is another designation for PT-20
УП-57	УП-57	Устройство присоединения-57	Line coupling unit for a power-line (6-35-kv) carrier telephone system
УС-9	УС-9	Радиоприемник на 9 ламп	The 9-tube telephone-telegraph superheterodyne radio receiver. Component of the "Oka". Frequency range, 1,500 - 18,000 kc, 200 - 500 kc; sensitivity: telephone operation, 15 v; telegraph operation, 6 v. (Used in river fleet communications)
УСВЧ	УСВЧ	Усилитель сверхвысокой частоты	Superhigh-frequency power amplifier used in antenna feeders of radio relay systems
УТА-3	УТА-3	Усилитель, телевизионный антенный-3	Television antenna amplifier

УУ-11-43

УУ-11-43

Указател' уровня-11-43

Level indicator for measuring  
absolute voltage levels.  
Frequency band, 50-60,000 cps

ФВЧ	ФVCh	Фильтр высокйх частот	High-frequency filter
ФИМ	FIM	Фазо-импульсная модуляция	Pulse-phase modulation
ФНЧ	FNCh	Фильтр низкйх частот	Low-frequency filter
ФТАМ	FTAM	Фототелеграфный аппарат магистральной связи	Photofacsimile system for transmission of half-tone pictures. Stroke speed is 360 lines per min. Since it is very complicated to produce and operate, it is being replaced by the ФТАМ-2
ФТАМ-2	FTAM-2	Фототелеграфный аппарат магистральной связи-2	Photofacsimile system for transmission of half-tone pictures. Drum diameters, 70 mm; drum length, 300 mm; scanning pitch, 0.2 and 0.265 mm; indexes of cooperation, 350 and 264; carrier frequency, 1900 cps at 60 and 120 lines per min and 280 cps at 250 lines per min. Fork-type synchronization system
ФТАП	FTAP	Фототелеграфный аппарат, плоскостный	Flat-bed-type facsimile system used with moistened electrochemical paper. Width of paper roll, 220 mm; stroke speed, 120 lines per min; scanning pitch, 0.2 mm; index of cooperation, 350; carrier frequency, 1900 cps

UJB-HKC	TsB-NKS	Tsentr'al'no-batareynnyy kommutator svyazi	Common-battery long-distance switchboard
UMTC	TsMTS	Tsentr'al'naya mezhdugorod- naya telefonnaya stantsiya	Central long-distance tele- phone office
UHMVC	TsNIIS	Tsentr'alnyy nauchno-issle- dovatel' skiy institut svyazi	Central Scientific Research Institute of Communications of the Ministry of Communi- cations USSR
UMPP	TsPP	Tsentr'al'nyy peregovor- nyy punkt	Central long-distance tele- phone call office
UPC-1	TsRS-1	Tsentr'al'naya radio- stantsiya-1	Dispatcher fixed-frequency telephone FM transceiver with selective ringing unit for duplex operation. Fre- quency band, 36-46 Mc; antenna input power, 80 w. For operation with the APC-1 transceiver
UPC-2	TsRS-2	Tsentr'al'naya radio- stantsiya-2	Dispatcher fixed-frequency simplex-operation FM trans- ceiver for operation with APC-2 transceiver. Fre- quency range, 36-46 Mc; antenna power, 80 w.
UCC MHC	TsSS MPS	Tsentr'al'naya stant- siya svyazi minister- stva putey soobshcheniya	Central Communications Office of the Ministry of Trans- portation

ЧММ

ChIM

Chastotno-impul'snaya  
modulyatsiya

Pulse frequency modulation

**ШИМ**

**ШИМ**

**Shiroto-impul'snaya  
modulyatsiya**

**Pulse-width modulation**